

# CONSTRUCTION SPECIFICATION

## INTERIM STANDARD

### WASTE FIELD STORAGE

#### SCOPE

This item shall consist of the clearing, excavation, backfill, and other appurtenances required for the installation of an earthen, concrete, or synthetic lined pad/berm for animal waste field storage and for the disposal of all cleared and excavated materials. Construction shall be conducted in such a manner that erosion and water, air, and noise pollution will be minimized and held within legal limits as established by regulations and laws of Alabama.

#### CLEARING AND GRUBBING

All trees, brush, and stumps shall be removed from the site before excavation is performed. All cleared material shall be disposed of by burning, removing from the site and stacking in a suitable disposal area, or burying at an approved site. All burning shall conform to regulations and laws of Alabama.

#### EARTHWORK

The completed excavation of soil for the pad and the placement of spoil material excavated from the site shall conform to the lines, dimensions, grades, and slopes shown on the plans or staked on the site. Soils containing excessive clumps of organic debris (large roots, limbs, etc.) and large rocks (> 4 in.) shall be removed from the area designated for the pad. Runoff from outside drainage areas shall be diverted from the field storage pad.

All spoil material resulting from site preparation will be disposed of in designated waste disposal areas. These disposal areas will be shaped to blend with the surroundings or be uniformly stacked to a depth of not more than 3 feet with minimum side slopes of 4:1.

Soil borrowed to create the pad/berm will be free of large rocks (> 4 in.), limbs, and other debris. Unless otherwise specified, soil will be placed in loose layers no more than 9 in. thick. Each layer will be compacted by completely traversing each

layer by at least four passes of the wheels or tracks of the hauling or spreading equipment. Adequate moisture will be maintained in the fill material during placement to facilitate compaction. Where different compaction methods are required, they will be shown on the plans and specifications.

If a synthetic liner is required, all bedding and backfill shall be free of sharp stones and other sharp objects to prevent damaging the liner. Detailed specifications for liner construction will be specified in the plan by the design engineer.

#### MATERIALS

The opaque plastic cover for the stored manure/litter must be new, free of tears or punctures, and be at least 6 mil. thick. Reusable flexible membranes or tarpaulins may be used if they remain flexible and impermeable.

Synthetic liners, when specified beneath the pad, must be at least 20 mils thick, new, and completely free of tears or punctures in order to prevent any seepage passing through it to the groundwater. The liner must satisfy the requirements of the standard or otherwise be approved by the engineer. Installation of the liner must conform to manufacturer's recommendations.

#### CONCRETE AND STEEL REINFORCEMENT

Requirements for concrete and steel reinforcement for concrete pads shall be as stated in the Construction Specification for Alabama NRCS conservation practice standard Waste Storage Facility, Code 313.

#### VEGETATION

Permanent vegetation shall be established on all disturbed areas. Seedbed preparation, seeding, fertilization, and mulching shall comply with Alabama NRCS conservation practice standard Critical Area Planting, Code 342.